**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**WASHINGTON, DC 20460**

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION
PREVENTION

October 12, 2016

| | |
|---|---|
| DP BARCODE: | D434675 |
| MRID: | 49921701, 49921702, 49921703 |
| SUBJECT: | CaviWipes Bleach |
| REG. NO. OR FILE SYMBOL: | 46781-RU |
| DOCUMENT TYPE: | Product Chemistry Review |
| Technical Grade Active Ingredient [] OR | End-use Product [X] |
| INGREDIENTS (PC Codes): | 014703 |
| CAS Number: | 7681-52-9 |
| TEST LAB: | Accuratus Lab Services |
| SUBMITTER: | Metrex Research |
| GUIDELINE: | 830 Guidelines |
| COMMODITIES: | Formulation |
| REVIEWER: | Chris Jiang |
| ORGANIZATION: | AD |
| APPROVER: | Karen P. Hicks |
| APPROVED DATE: | |
| COMMENT: | |

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**MEMORANDUM**

**Subject:** Review for 46781-RU

**From:** Chris Jiang, Chemist
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

**Thru:** Karen P. Hicks, CT Team Leader
Chemistry and Toxicology Team
Product Science Branch
Antimicrobials Division (7510P)

**To:** Demson Fuller PM 32/Donna Kamarei
Regulatory Management Branch II
Antimicrobials Division (7510P)

**Applicant:** Metrex Research

**Formulation from Label**

| Active Ingredient(s) | % by wt. |
|---|---|
| Sodium hypochlorite | 0.91 |
| Other Ingredients | 99.09 |
| Total | 100.00 |

**BACKGROUND:**

The registrant has submitted a product chemistry package for this non-integrated end-use product for non-food use. The package includes a cover letter, a label, a data matrix, Confidential Statement of Formula (CSF) for the basic formulation, MRIDs 49921701, 49921702, and 49921703 to address the product chemistry requirements for this product.

**FINDINGS:**

1. The concentration of the active ingredient on the Confidential Statements of Formula (CSF dated 9/30/2016 for the basic formulation) is consistent with the label declaration. This CSF supersedes all previous CSFs for the basic formulation.

2. All ingredients are approved for non-food use in pesticidal products.

3. The product identity and composition is **acceptable.**

4. The description of the starting materials is **acceptable**.

5. The description of the formulation process is **acceptable**.

6. The enforcement analytical method is **acceptable**

7. The wider certified limits are **acceptable** because of manufacturing limitations.

8. The submittal of samples is **acceptable**.

9. The color, odor, and physical state are **acceptable** as the product is a liquid with a Lovibond color of less than 1 with a sodium hypochlorite odor.

10. The density is **acceptable** as the density was determined to be 1.0350 g/mL.

11. The pH is **acceptable** as the average pH of the product was 10.44.

12. The oxidation/reduction potential is **acceptable** as no reaction occurred when the product was mixed with water, and turpentine. When the product was mixed with evolution monoammonium phosphate, the temperature rose from 22.0 °C to 26.5 °C. There was evolution of a gas and the reaction produced bubbling and foaming. When the product was mixed with potassium permanganate, a brown precipitate formed.

13. The flammability is **acceptable**. The product is more than 95% water and the other ingredients are nonflammable.

14. The explodability is **acceptable** as the product is not potentially explosive.

15. The product underwent testing for accelerated storage stability and corrosion charcteristics. On day 0 at room temperature, the product was white and free of discoloration with no corrosion of the packaging and no leakage. After 14 days at 54 °C, the product was white and free of discoloration with no corrosion of the packaging and no leakage.

16. The viscosity is **acceptable** as the average dynamic viscosity was determined to be 1.29 cPs at 20 °C and 0.919 cPs at 45 °C.

17. The dielectric breakdown voltage is **acceptable** as the product is not for use around electrical equipment.

**CONCLUSIONS:**

Product Science Branch of Antimicrobials Division finds the CSF dated September 30, 2016 for the basic formulation and the data for 46781-RU to be acceptable for product chemistry.

The policy on antimicrobial towelettes and wipes is under consideration by the Antimicrobials Division. Once the policy has been finalized, registrants will be informed if there are any changes that need to be made regarding the registration process and if there are any additional data that must be submitted to the Division for review.